TEJUS

Test Report on Compressive Strength of Concrete Cubes

Project:	Improvement to Roads and Drains at Lakshmi Layout, Singarave Palaiya, Hoodahalli Ward, MC Palya, Chikpalya Ward and Raghavendra Layout in Ward No.15
Client:	Bruhat Bengaluru Mahanagara Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Sri.S Ramesh Anand
Location:	Chennai
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

S.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	29-01-2020	30-02-2020	28 days	8.586	22500	680	30.22	30.55
2	29-01-2020	30-02-2020	28 days	8.786	22500	694	30.84	
3	29-01-2020	30-02-2020	28 days	8.562	22500	688	30.58	

Remarks: Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	P.C.C	
Sample Location	At Plant/site		**Date of Sampling**	13-02-2020	
			Date of Testing	13-02-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	220	220	7.33	92.67	**90 - 100**
2.36 mm	302	522	17.40	82.60	**75 - 100**
1.18 mm	534	1056	35.20	64.80	**55 - 90**
0.600 mm	486	1542	51.40	48.60	**35 -59**
0.300 mm	620	2162	72.07	27.93	**8-30**
0.150 mm	608	2770	92.33	7.67	**0 - 10**
Pan	230	3000			-

Remarks : Satisfactory / Not Satisfactory

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3. *Any Query regarding the report must be reported reported within 15days from the date of testing.*
4. *The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.*

TEJUS CONSULTANTS

Consultant's Representative

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TEJUS

Test Report on Cement

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosahalli Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri.E Ramesh Anand
Sample ID	Cement
Date of Sample Tested	13-02-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	104 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	452	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	P.C.C
Location/Source	At Laboratory	Date of Sampling	13-02-2020
Period of Soaking	24 hours	Date of Testing	14-02-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		670	672	650	
B	Weight of oven - dry sample gm.		662	664	641	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1696	1698	1684	
E	Bulk specific gravity	B / (C+A-D)	2.659	2.667	2.660	**2.662**
G	Absorption (%)	(A-B)*100 / B	1.208	1.205	1.404	**1.272**

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapora Paradise, Hoosahalli Nagara, Mb Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri. E Ramesh Anand
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	20-02-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri. E Ramesh Anand
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete	
Sample Location	At Plant	**Date of Sampling**	20-02-2020	
		Date of Testing	20-02-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	266	266	2.66	97.34	95 - 100
10.00 mm	4994	5260	52.60	47.40	25 - 55
4.75 mm	4356	9616	96.16	3.84	0 - 10
Pan	384	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Sri. E Ramesh Anand	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete	
Sample Location	Plant	**Date of Sampling**	20-02-2020	
		Date of Testing	20-02-2020	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	564	564	5.64	94.36	90-100
10.0	3362	3926	39.26	60.74	40-85
4.75	5446	9372	93.72	6.28	0-10
Pan	628	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri. E Ramesh Anand

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Materia	**Fine aggregate (M sand)**		**Proposed Use**	Concrete	
Sample Location	**At Plant**		**Date of Sampling**	20-02-2020	
			Date of Testing	20-02-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	206	206	6.87	93.13	**90 - 100**
2.36 mm	272	478	15.93	84.07	**75 - 100**
1.18 mm	552	1030	34.33	65.67	**55 - 90**
0.600 mm	542	1572	52.40	47.60	**35 -59**
0.300 mm	662	2234	74.47	25.53	**8-30**
0.150 mm	528	2762	92.07	7.93	**0 - 10**
Pan	238	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEJUS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri.E Ramesh Anand
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	20-02-2020	19-03-2020	28 days	8.588	22500	682	30.31	30.49
2	20-02-2020	19-03-2020	28 days	8.746	22500	690	30.67	
3	20-02-2020	19-03-2020	28 days	8.624	22500	686	30.49	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosahalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri.E Ramesh Anand
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	20-02-2020	27-02-2020	7 days	8.826	22500	444	19.73	
2	20-02-2020	27-02-2020	7 days	8.790	22500	430	19.11	19.44
3	20-02-2020	27-02-2020	7 days	8.810	22500	438	19.47	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri. E Ramesh Anand

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant**	**Date of Sampling**	20-02-2020
Period of Soaking	**24 hours**	**Date of Testing**	21-02-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		658	652	674	
B	Weight of oven - dry sample gm.		650	644	666	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1688	1684	1698	
E	Bulk specific gravity	B	2.653	2.650	2.653	**2.652**
		(C + A - D)				
G	Absorption (%)	(A - B) *100	1.231	1.242	1.201	**1.225**
		B				

Remarks : Satisfactory / Not Satisfactory

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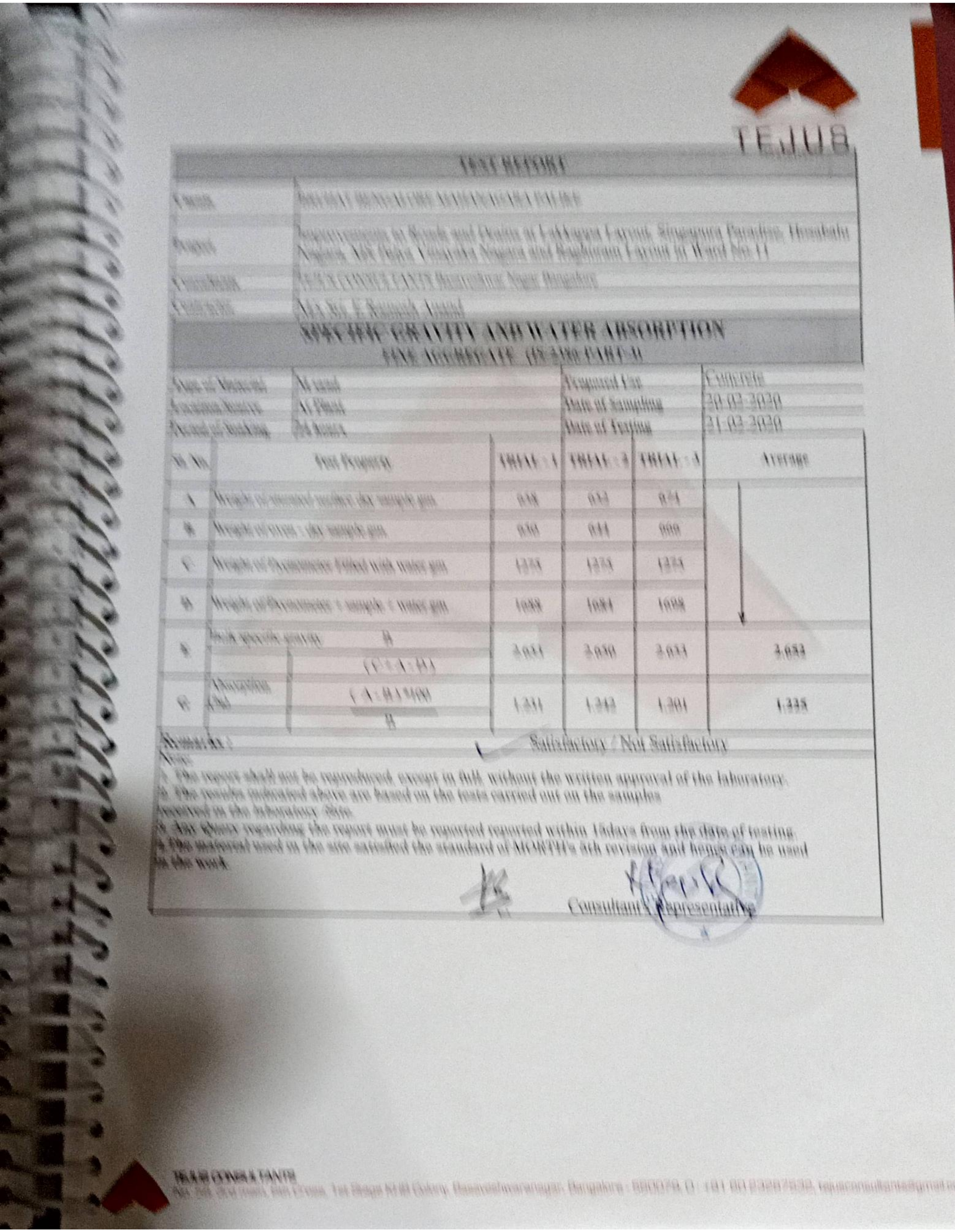

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No 11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site	**Date of Sampling**	26-05-2020
		Date of Testing	26-05-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	78	78	2.60	97.40	95-100
20.00mm	1434	1512	50.40	49.60	30-70
10.00mm	940	2452	81.73	18.27	10-35
4.75mm	460	2912	97.07	2.93	0-5
Pan	88	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand
Total Weight in g	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site	**Date of Sampling**	26-05-2020
		Date of Testing	26-05-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	86	86	2.87	97.13	95-100
20.00mm	1458	1544	51.47	48.53	30-70
10.00mm	926	2470	82.33	17.67	10-35
4.75mm	432	2902	96.73	3.27	0-5
Pan	98	3000	100.00	0.00	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	P.C.C
Sample Location	At Site	**Date of Sampling**	27-05-2020
		Date of Testing	27-05-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	74	74	2.47	97.53	95-100
20.00mm	1436	1510	50.33	49.67	30-70
10.00mm	944	2454	81.80	18.20	10-35
4.75mm	434	2888	96.27	3.73	0-5
Pan	112	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	P.C.C
Sample Location	At Site	**Date of Sampling**	27-05-2020
		Date of Testing	27-05-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	74	74	2.47	97.53	95-100
20.00mm	1458	1532	51.07	48.93	30-70
10.00mm	944	2476	82.53	17.47	10-35
4.75mm	458	2934	97.80	2.20	0-5
Pan	66	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	P.C.C
Sample Location	At Site			**Date of Sampling**	28-05-2020
				Date of Testing	28-05-2020
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007)** **% of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1460	1540	51.33	48.67	30-70
10.00mm	932	2472	82.40	17.60	10-35
4.75mm	448	2920	97.33	2.67	0-5
Pan	80	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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Consultant's Representative

TEJUS CONSULTANTS
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TEJUS

Project	**Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11**
Client	**BRUHAT BANGALORE MAHANAGARA PALIKE**
Consultant	**M/s Tejus Consultants**
Contractor	**M/s Sri.E Ramesh Anand**

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	**06-06-2020**		
Layer no. or level	**GSB layer**		
Depth of hole	**200mm**		
Field density:	**1**	**2**	**2**
Chainage			
Wt. of wet material from hole (Ww) gms.	5976	5964	5956
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10574	10568	10576
Wt. of sand in hole+ cone (w3) gms.	4426	4432	4424
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3346	3352	3344
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.35	2.35
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.21	2.21	2.21
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.38	98.10	98.21
% compaction required	98%	98%	98%

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Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	**06-06-2020**		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:	**1**	**2**	**2**
Chainage			
Wt. of wet material from hole (Ww) gms.	5984	5990	5954
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10580	10572	10592
Wt. of sand in hole+ cone (w3) gms.	4420	4428	4408
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3340	3348	3328
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.36	2.36
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22	2.22
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.69	98.65	98.65
% compaction required	98%	98%	98%

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Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	06-06-2020		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:	**1**	**2**	**2**
Chainage			
Wt. of wet material from hole (Ww) gms.	5974	5992	5970
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10578	10574	10580
Wt. of sand in hole+ cone (w3) gms.	4422	4426	4420
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3342	3346	3340
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.36	2.36
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22	2.22
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.47	98.74	98.55
% compaction required	98%	98%	98%

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